FOR MYSORE STATE

PUBLIC WORKS **(195 5) Department.**

MS. **SERIES.**

G.O. No. 1183

Dated 29-3-1955

[Despatch Abstract.]

PORT TRUSTS - Mangalore - Improvements - Model experiments at Central Water and Power Research Station, Poona - Second Revised Estimate for Rs 1,45,298/- - Sanctioned.

No. 2196/su-2

Port office, Mangalore I.
-P.B.No.146.
16th December 1954.

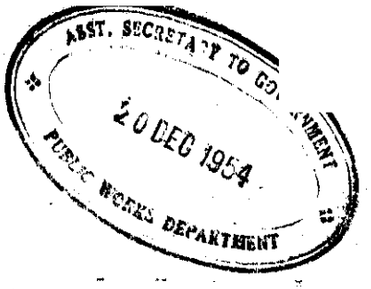
97797

From

The Chairman,
Mangalore Port Trust,
M A N G A L O R E.

To

The State Port Officer,
M A D R A S.



Submitted,

Mangalore Port - Model Experiments - conducted at Poona Research Station - Revised estimate for 1,45,298/- sanction of -
Ref:- Your Endt. No.438 SD/54-1 dated 6-11-1954 forwarding copy of letter No.179/7716 of 54 dated 22-10-1954 from the Director, Central Water and Power Research Station, Poona.

In forwarding herewith copy of resolution No.88 dated 14-12-1954, I have to state that the work of survey and conducting model experiments in connection with the improvements to the Port of Mangalore was originally taken up on definite decision of financing the work from the State Minor Ports Fund and the Government accordingly sanctioned the original estimate amounting to Rs.87,525/- from the State Minor Ports Fund in their order Ms. No.1959 P.W. dated 6-5-1952.

The revised estimate amounting to Rs.1,45,298/- now forwarded by the Director of Central Water and Power Research Station necessitated only due to reasons mentioned in his letter cited above and therefore it is the same work for which sanction was once accorded to meet the expenditure from the State Minor Ports Fund. Besides there is neither any provision for such work in the sanctioned Budget Estimate of the Mangalore Landing and Shipping Fund for 1954-55 nor the anticipated cash closing balance is sufficient to cover up the expenditure.

In the circumstances I request you to recommend to Government to sanction the revised estimate under the State Minor Ports Fund.

(Sd) A.Kunhamed,
Chairman.

Copy together with copy of State Port Officer's endorsement No.438 SD/54-1 dated 6-11-1954 submitted to the Secretary to Government of Madras, Public Works Department, Madras.

Kunhamed 16.12.54
Chairman.

NA.16/12.

neh: 2.

PWD (Fi)

No report of the S.P.O. may be awaited till 25.1.55.

DLS 23.12.54

M 23.12.54

Sub:- Mangalore Port Model Experiments - Revised Estimate.

The original estimate for conducting model tests for Mangalore Port, amounting to Rs.87,525/ was sanctioned under your No.1768-G1/51-4 of 13-5-1952. I am enclosing a revised estimate amounting to Rs. 1,45,298/- for carrying out model experiments for favour of your approval and early sanction.

As you know, very scanty data was available when the original estimate was prepared. Now, sufficient data is available. I had already pointed out in my original estimate that as the data becomes available the estimate may have to be revised. Accordingly, I find that some new experiments which were not originally contemplated have now to be done.

I also now consider that another wave generator should be provided to expedite the work. Similarly, some of the latest experiments have shown that treated saw dust is a very good material to simulate changes in bed configuration. The bed of the model is being laid in this material.

The vertical exaggeration of the model at present is five. This distoration is now found to distort wave characteristics. I, therefore, propose to repeat the experiments in a geometically-similar model and in a model with a vertical exaggeration of two.

Inordinate delays also occurred in getting the required data. This has also in a way necessitated revision of the estimate and also increase in the duration of experiments.

The progress of the model, as at present, is as follows:-

The tidal characteristics at the Gut, the Netravati Railway bridge and Bajal on the Netravati river and Sultan's Battery and Maravoor on the Gurpur river in respect of ranges, ebbing and flooding periods, time lags etc., have been satisfactorily reproduced for fair weather as well as the monsoon season.

The wave generating machine is fixed to reproduce fair weather waves. The reproduction of waves in respect of height, period and refraction is satisfactory.

Reproduction of flow lines in model for the different conditions is satisfactory. There is also good agreement in model and prototype velocities.

Experiments are now expected to last for about 1½ years and the provisions are made accordingly in the revised estimate.

Where excesses are likely to occur, itemwise explanation is furnished in the estimate.

No.438-SD/54-1.

Copy (together with copies of its enclosures) forwarded to the Port Officer, Mangalore for further action.

L.H.Cornish,
Madras, 6-11-1954. State Port Officer.

Copy to the Director, CW & PR. Station, Poona, with referen to his letter No.179/7716 of 54 dated 22-10-1954.

(Copy)

Port office, Mangalore.)
Dated 16th December 1954.)
NA.16/12.

R.G.Hardas 16/12
Port Officer.

Resolution No.88 dated 14th December 1954 of the Mangalore Port Trust Board.

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88. Mangalore Port - Conversion into All-Weather Port Model Experiment conducted at Central, Water & Power Research Station - Poona - Estimate of cost - revised Estimate for Rs.1,45,298/- approval of.

Please see Port Officer's note - 6.

"Approved subject to approval by Government. As the additional amount of Rs.57,773/- is on account of the revised estimate, the Government is to be moved to meet this amount out of Minor Ports Funds."

(Copy)

Port office, Mangalore.)
Dated 16th December 1954.)

NA.16/12.

N.Gokhardas 16/12
Port Officer.

1 P.W.D.(Fi.

32/317

Memo. no. 97797F/54-1 dt 29-1-55

Port Trust – Navigation – Model experiments at Poona – Revised estimate – Sanction of

From the C. Nav. P.T. Letter no. 2196/54.2 dt 16.12.54.

Re S.P.O. is requested to expedite his remarks on the reference cited.

29.1.55

2. The S.P.O. CENTRE

Dy. Secy. 28/1/55

A.M. 28.1.55

Date 1/2/55

Initials.

No. 2196/54-4

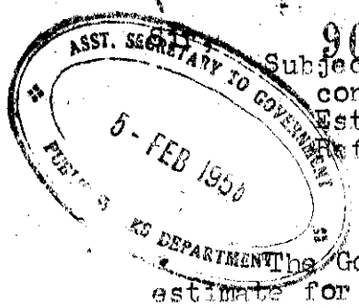
Mangalore Port Trust,
P.B.No.146, Mangalore - 1.
2nd February 1955.

From

The Chairman,
Mangalore Port Trust,
Mangalore.

To

The Secretary to Government
Public Works Department,
M A D R A S .



9096

Subject: Mangalore Port - Model Experiments conducted at Poona Research Station - Revised Estimate for Rs.1,45,298/. Sanction of -

Ref:- Government Order Ms.No.1959 P.W. dated 6.5.1952.

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The Government in their order cited sanctioned the revised estimate for Rs.87,525/. for conducting Model Experiments in connection with the improvements to the Ports of Mangalore in lieu of the estimate for Rs.63,956/. originally sanctioned in Government Memo No.3036 F/49/22 P.W. dated 14/6/1951.

The estimate for the work was further revised by the Director, Central Water and Power Research Station, Poona to Rs.1,45,298/. and it was forwarded to the State Port Officer, Madras with Director's letter No.179/7716 of 1954 dated 22.10.1954 (Copy together with copy of estimate in duplicate enclosed) for necessary action.

The State Port Officer, Madras in turn forwarded the Estimate to the Mangalore Port Trust for sanction. The Board in its resolution No.88 dated 14.12.1954 (copy enclosed) proposed that the additional cost of Rs.57,773/. to be met from the State Minor Ports Fund.

When the resolution was communicated to the State Port Officer, Madras with this office letter No.2196/54.2 dated 16.12.1954 (Copy enclosed) the State Port Officer, Madras returned the estimate with his letter No.438 SD/54.3 dated 8.1.1955 (copy enclosed) for the reasons mentioned therein.

I agree with the State Port Officer that the work is relating exclusively to the Mangalore Port Improvement but in as much as the original estimate was sanctioned from the State Minor Ports Fund and the work was taken up before the constitution of the Port Trust Board at Mangalore I consider the additional amount, due to revision of the original estimate (which cost would have been otherwise met from the State Minor Ports Fund) should be met from that fund itself.

The Mangalore Port Fund was constituted with "Nil" balance and the anticipated cash closing balance for 1954-55 will not be sufficient to meet the aforesaid additional expenditure of Rs.57,773/. The Mangalore Port Trust Fund has its own works approved under the Minor Ports Development scheme to the extent of Rs.1,49,000/. to meet during 1955-56. In the circumstances it is not possible to meet the additional expenditure either by the Mangalore Port Fund or the Mangalore Port Trust Fund, unless a free grant or loan to the extent of Rs.57,700/. is made available from the State Minor Ports Fund. If Government consider that the aforesaid extra cost is to be met from the Mangalore Port Fund I propose that a free grant or at least interest free loan repayable within 10 years in equal instalments to the extent of Rs.57,700/. be made available from the State Minor Ports Fund to the Mangalore Port Fund. I request the Government to issue orders on consideration of the aforesaid facts and sanction the revised estimate submitted.

Chairman.

NA.28/1.

Very Urgent

P.W.D (Fi)

Endt. No. ..... /521-2 of 15-2-55

Re-perm to the S.P.O. for urgent remarks.

M
14-2-55

To The S.P.O.

CENTRAL REGISTER BRANCH

Ver.
Post.
Despatched by Regd. Post.
Messenger.

Date 16/2 1955. Despatcher's Initials.

DW
14/2/55.

14.2.55

Resolution No.88 dated 14th December, 1954 of the Port Trust Board, Mangalore.

Mangalore Port - Conversion into All-Weather Port Model Experiment conducted at Central, Water & Power Research Station Poona - Estimate of cost - revised Estimate for Rs.1,45,298/- approval of -

Please see Port Officer's Note - 6.

"Approved subject to approval by Government - As the additional amount of Rs.57,773/- is on account of the revised estimate, the Government is to be moved to meet this amount out of Minor Ports Funds."

/True Copy/

PORT TRUST OFFICE,
MANGALORE - 1.
Dated 21st January, 1955.
Shr/21.1.

K.Gibandas 21/1
SECRETARY.

Copy of letter No.2196/54-2 dated 16th December 1954 from the Chairman, Mangalore Port Trust, Mangalore to the State Port Officer, Madras.

Mangalore Port - Model Experiments - conducted at Poona Research Station - Revised estimate for Rs.1,45,298/- sanction of -
Ref:- Your Endt. No.438 SD/54-1 dated 6-11-1954 forwarding copy of letter No.179/7716 of 54 dated 22-10-1954 from the Director, Central Water and Power Research Station, Poona.

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In the circumstances I request you to recommend to Government to sanction the revised estimate under the State Minor Ports Fund.

Copy together with copy of State Port Officer's endorsement No.438 SD/54-1 dated 6-11-1954 submitted to the Secretary to Government of Madras, Public Works Department, Madras.

Copy of reply from the State Port Officer, Madras to the Chairman, Mangalore Port Trust, Mangalore, No.438 SD/54-3 dated 8-1-1955.

Sub:- Mangalore Port - Model Experiment conducted at Poona Research Station - Revised Estimate for Rs.1,45,298/- - Sanction of.
Ref:- Your letter No.2196/54-2, dated 16-12-1954.

I invite a reference to this office letter No.171 A/54-7, dated 13-10-54 to the Accountant General, Madras with a copy to the Port Officer, Mangalore wherein it was directed that all debits in respect of the above work on and from 1-5-1954 should be debited to the Mangalore Port Fund, as a separate fund viz., Mangalore Port Fund had been constituted from that date. Further this is a charge like other charges exclusively intended for the improvement of Mangalore Port and as such should be borne only by the Mangalore Port Fund as necessary as such it is not in order to sanction the revised estimate at this stage under Minor Portss Fund. However it is always open for the Mangalore Port Trust to approach Government for financing for the development schemes at hand or under contemplation for improvements of the port of Mangalore. The revised estimate is enclosed herewith.

Copy forwarded to the Director, Central Water & Power Research Station, Poona with reference to his letter No.179/9445 of 54 dated 24-12-1954 for information. Further communication on the subject may please be addressed to the Chairman, Mangalore Port Trust, Mangalore.

From

From the Director, Central Water and Power Research Station, Poon
To the Principal Port Officer, Madras - 1.
No.179/7716 of 54 dated 22nd October 1954.

Sub:- Mangalore Port Model Experiments - Revised Estimate.

The original estimate for conducting model tests for Mangalore Port, amounting to Rs.87,525/- was sanctioned under your No.1768-G1/51-4 of 13-5-1952. I am enclosing a revised estimate amounting to Rs.1,45,298/- for carrying out model experiments for favour of your approval and early sanction.

As you know, very scanty data was available when the original estimate was prepared. Now, sufficient data is available. I had already pointed out in my original estimate that as the datat becomes available the estimate may have to be revised. Accordingly, I find that some new experiments which were not originally contemplated have now to be done.

I also now consider that another wave generater should be provided to expedite the work. Similarly, some of the latest experiments have shown that treated saw dust is a very good material to simulate changes in bed configuration. The bed of the model is being laid in this material.

The vertical exaggeration of the model at present is five. This distoration is now found to distort wave characteristics. I, therefore, propose to repeat the experiments in a geometically similar model and in a model with a vertical exaggeration of two.

Inordinate delays also occurred in getting the required data. This has also in a way necessitated revision of the estimate and also increase in the duration of experiments.

The progress of the model, as at present, is as follows:-

The tidal characteristics at the Gut, the Netravati Railway bridge and Bajal on the Netravati river and Sultan's Battery and Maravoor on the Gurpur river in respect of ranges, ebbing and flooding periods, time lags etc., have been satisfactorily reproduced for fair weather as well as the monsoon season.

The wave generating machine is fixed to reproduce fair weather waves. The reproduction of waves in respect of height, period and refraction is satisfactory.

Reproduction of flow lines in model for the different conditions is satisfactory. There is also good agreement in model and prototype velocities.

Experiments are now expected to last for about 1½ years and the provisions are made accordingly in the revised estimate.

Where excesses are likely to occur, itemwise explanation is furnished in the estimate.

No.438-SD/54-1.

Copy (together with copies of its enclosures) forwarded to the Port Officer, Mangalore for further action.

L.H.Cornish,
State Port Officer.

Madras, 6-11-1954.

Copy to the Director, CW & PR. Station, Poona, with reference to his letter No.179/7716 of 54 dated 22-10-1954.

(Copy)

Mangalore Port Trust.)
Dated 21st January 1955.)
NA.21/1.

N.G.Hardas 21/1
Secretary.

Original

15

GOVERNMENT OF INDIA
PUBLIC WORKS DEPARTMENT.
-.-.-.-.-

Estimate No. for 19 19

(Central PWD Code (Paragraph 81)

State Branch

Division

Name of work :- Revised estimate of -
1/250 and 1/50 scale Mangalore Port Model Experiments.

Fund

Major Head

Minor Head Deposit Work

Detailed Head

(Note:- The entries against each of the above should be made in accordance with the classification prescribed in Appendix No.4, PWD Code).

-.-.-.-.-

Estimate framed by Shri S.N.Mulekar, A.R.O. Engineer

of the probable cost of Rs. ~~4,75,655~~/-/- 1,45,298/-

REPORT.

In the sanctioned estimate provision had been made only for one wave generating apparatus. Since the shifting of the same wave generating apparatus to the two positions (Viz. NW for the fair weather season and S.W. for the monsoon season) ~~of wave generators~~ will lead loss of valuable time, it is proposed to install one more wave generating apparatus at the other location so that model experiments can be expedited. Hence provision is made for one more wave generating apparatus in the (REVISED ESTIMATE).

At present the vertical exeggeration of the model is five. This distorts the wave characteristics. The proposals will therefore be also tested with vertical exaggaration equal to two and in a geometrically similar model, an extra amount to meet expenditure in this connection is included in this estimate.

With sea sand, sufficient bed movement near the bar was not obtained. Sawdust treated with lime was found suitable for this purpose. Hence the provision for the same is made in this estimate. Necessary amount is also provided in this estimate to meet the expenditure in connection with the conducting of breakwater experiments in 200' wave flume. Provision has also been made for a current meter which is found necessary for observing velocities in the model.

Abstract of cost - Original estimate

Name of work :- Revised Estimate of - 1/250 and 1/50 Scale Mangalore Port Model

Item No	Sub-heads and item of work	Quantity or No.	Rate Rs.Ps.	Per	Amount Rs.	Total Rs.
1)	Excavation (to R.L. 113) for preparing model area in soft, hard or average murum including depositing the excavated stuff as and when ordered.	64000 cft.	/-/-	% cft.	2,560/-	
2)	Excavation for foundation in soft, hard or average murum including depositing the excavated stuff as and where ordered.	50000 cft.	/-/-	% cft.	2,000/-	
3)	Uncoursed rubble masonry in lime 1:1½ with cement plastering.	14,400 cft.	/8/-	% cft.	13,608/-	
4)	Brick masonry in cement mortar 1:6	1,600 cft.	/-/-	% cft.	2,288/-	
5)	Cement plaster 3/4" thick(in 1:3)	39,400 cft.	/-/-	% cft.	9,456/-	
6)	Supplying at site sea sand of approval quality for use in model	8,000 cft.	/-/-	%cft.	8,000/-	
7)	Supplying and fixing in position sliding cippolelti weirs.	2 Nos.	0/-/-	each	300/-	
						38,212/-

	Sub-heads and items of work	Quantity or No.	Rate Rs.Ps.	Per	Amount Rs.	Total Rs.
				B.F.	38212/-/-	
8)	Supply of water level recorders.	6 Nos.	0/-/-	each	7800/-/-	
9)	Supplying at site of work fine silt for ⅛ injection.	500 cft	50/-/-	⅛ cft.	250/-/-	
10)	Labour for laying and lining out model.	720 day	2/-/-	per day	1440/-/-	
11)	Supplying at site of work timber of sizes as ordered.	70 cft	10/-/-	per cft.	700/-/-	
12)	Supplying at site of work iron and steel categories.	4 cwt	25/-/-	per cwt.	100/-/-	
13)	Sundaries such as photographic materials, Copper glass , tubing and other chemicals.	Lump Su	... ...	...	500/-/-	
14)	Wave Generator with componenets and one to 7 H.P. Motor and its maintenance.	2 Nos.	000/-/-	each	14000/-/-	
15)	Supplying and fixing water tight gates of steel with gearing arrangements.	18 sq.ft.	40/-/-	sq.ft.	720/-/-	
16)	Labour for conducting model experiments - 5 Coolies for 36 months @ 25 working days per month.	450 days	2/-/-	per day	9000/-/-	
17)	Additions and alterations during the course of experiments	Lump sum	...	... ...	5000/-/-	
				C.O.	77722/-/-	

Item No.	Sub-heads and item of work	Quantity or No.	Rs.	Per	Amount Rs.	Total Rs.
					B.F.	77,722/-
18)	Unforeseen works.	LUMP SUM				1,000/-
19)	WORKCHARGED ESTABLISHMENT					
	(a) One Recording Karkoon (39 months).	39 months	100/-	per month		3,900/-
	(b) two trained mazdoors for 39 months.	78 months	60/-	-do-		4,680/-
	(c) one Watchman for (39 months).	39 months	60/-	-do-		2,340/-
20)	Cement Concrete 1:4:8	1600 cft.	120/-	% cft.		1,928/-
21)	Supplying and fixing in position 2' dia. hume pipe.	72 Rft.	16/-	per Rft.		1,152/-
22)	Supplying and fixing in position 18" dia. hume pipe.	40 Rft.	13/-	-do-		520/-
23)	Supplying and fixing in position radial gates including shifting etc.	6 Nos.	500/-	each		3,000/-
24)	Temporary shed with 3' high masonry walls.	200 sq.ft.	6/-	per sq.ft.		1,200/-
25)	Supplying sawdust treated with lime at site of work.	1000 cft.	1/8	cft.		1,500/-
26)	Excavation for foundation in soft or hard rock or including depositing the excavated stuff as and when ordered (rock cutting with chisels).	10933 cft.	4/-	⅖ Cft.		4,373/-
				Carried Over:-		1,05,315/-

P.T.O.

Item No.	Sub-heads and item of work	Quantity	Rate Rs.As.Ps.	Per	Amount:	Total
					B.F.	1,03,315/-
27)	Supplying of one current meter for velocity observation.	1 No	1500/-/-	each		1,500/-
28)	Shifting of wave generating apparatus.	4 time	500/-/-	-do-		2,000/-
29)	Costruction of shed for wave recording apparatus.	LUMP SUM				200/-
30)	Conducting break water experiments in 200' wave flume.	-do-				2,500/-
31)	Precise Pointer Gauges with and pinion arrangement for water level observations.	2 Nos.	150/-/-	each		300/-
32)	Supply of 1½" granite metal for laying sloping beaches to a slope of 2 to 1 behind wave flaps to absorb reflected wave.	325 cft.	27/-/-	% cft.		88/-
33)	Supply of bamboo matting for covering the portion of the model where observation are to be made.	LUMP SUM				400/-
34)	Minan sand (0.09 mm dia.) for injection in the model to observe bed movement.	400 cft.	100/-/-	% cft.		400/-
						1,10,703/-
	Add for 5% contengies					5,535/-
						1,16,238/-
	Add for 25% over head charges.					29,060/-
						1,45,298/-

ONE LAKH FORTY FIVE THOUSAND TWO HUNDRED AND NINTY EIGHT ONLY.
(Rs.1,45,298/-/-

D V Joshi
Director,
Central Water & Power Research Station,
Poona-3.

Details of Measurement

Name of work :- 1/250 and 1/50 Scale Mangalore Port Model

Item No	Details of work	NO	MEASUREMENTS L	B	H	QUANTITIES
1)	Excavation (to R.L.113) for preparing model area in soft, hard or average murum including depositing the excavated stuff as and when ordered.					
	Sea side area	1	220	70	2	30,800 cft.
	River side Gurpur river	1	300	15	2	9,000 "
	River side Netravati river	1	90	30	3	8,100 "
	Labyrinth for Gurpur river	1	85	30	2	5,100 "
	Labyrinth for Netravati river	1	85	65	2	11,050 "
						63,950 Cft
						or Say 64,000 Cft
2)	Excavation for foundation in soft, hard or average murum including depositing the excavated stuff as and when ordered.					
	Chamber 10'x10'x5'					
	Long walls	2x1	11.5	2	4	184 Cft.
	Short walls	2x1	11.5	2	4	184 "
	Bed	1	10	10	3	300 "
	Intake and byepass chambers.					
	Long walls	2x1	221.5	2	4.5	3987 "
	--do--	1	221.5	2	3.5	1550 "
	Short walls	2x1	7.5	2	3.5	105 "
	--do--	2x1	3.75	2	4.5	68 "
	Sea portion	1	220	70	1	15400 "
	South wall and channel enclosing					
	Sea portion	2x1	70	2	3	840 "
	North wall	2x1	70	2	3	840 "
	Intake chamber bed	1	220	6	3	3960 "
	Byepass chamber bed	1	220	3	4	2640 "
	Labyrinth for Gurpur river	1	80	25	2.5	5000 "
	Long walls	2x1	81.5	2	3	978 "
	Short walls	2x1	26.5	2	3	318 "
	Labyrinth for Netravati river					
	Bed	1	80	60	2.5	12000 "
	Long walls	2x1	81.5	2	3	978 "
	Short walls	2x1	61.5	2	3	738 "
						50070 cft.
					or say	50000 cft.

m No.	Details of work	No.	Measurement L	B	H	Quantities
3)	Uncoursed rubble masonry in lime 1:1½ with cement pointing.					
	Supply chamber 10'x10'x5'					
	Long walls	2x1	11.5	1.5	6	207 cft.
	Short walls	2x1	11.5	1.5	6	207 "
	Intake and byepass chamber					
	Long walls	2x1	221.5	1.5	4.5	2990 "
	--do--	1	221.5	1.5	3.5	1163 "
	Short walls	2x1	7.5	1.5	3.5	78 "
	--do--	2x1	4.5	1.5	4.5	61 "
	South wall and channel enclosing sea	2x1	70	1.5	3.5	735 "
	-----do------	2x1	70	1.5	3.5	735 "
	Labyrinth for Netravati river					
	Long walls	2x1	83	1.5	4	996 "
	Short walls	2x1	60	1.5	4	720 "
	Leading and exit channel pitching	1	650	8.0	1	5200 "
						14388 cft
					or say	14400 cft.
4)	B.B.Masonry in C.M. 1:6 mix					
	Sea shore line	1	220	0.75	1	165 cft.
	River bank of Gurpur	2x1	250	0.75	1	375 "
	River bank of Netravati	2x1	90	0.75	1	135 "
	Guide walls for wave flaps	6	50	0.75	1.5	338 "
	3' high walls all around the shed covering wave generator.	3x4	8	0.75	3	216 "
	Brick masonry walls behind wave flaps for retaining the sloping beaches made of 1½" metal.	3	60	0.75	2.5	338 "
	Sundries					33 "
						1600 cft.
5)	Cement plaster 1:3 , 3/4" thick					
	Supply chamber (inside)	4x1	10		5	200 Sft.
	---do-- (top)	4x1	11.5	1.5		69 "
	Intake chamber					
	Long walls (inside)	2x1	220	-	3	1320 "
	--do- (top)	1	223	1.5	-	335 "
	Short walls (inside)	2x1	6	-	3	36 "
	--do-- (top)	2x1	9	1.5	-	27 "
	Byepass Chamber					
	Long walls (inside)	2x1	220	-	4	1760 "
	--do-- (top)	2x1	223	1.5	-	669 "
	Short walls (inside)	2x1	3	-	4	24 "
	--do-- (top)	2x1	4.5	1.5	-	14 "
	Intake chamber bed	1	220	6	-	1320 "
	Byepass chamber bed	1	220	3		660 "

Details of work	No	Measurements L	B	H	Quantities
Labyrinth for Netravati river					
Long walls (inside)	2x1	80	-	2.5	400 Sft.
--do-- (top)	2x1	83	1.5	-	249 "
Short walls (inside)	2x1	60	-	2.5	300 "
--do-- (top)	2x1	60	1.5	-	180 "
Labyrinth for Gurpur river					
Long walls (inside)	2x1	80	-	2.5	400 "
--do-- (top)	2x1	83	1.5	-	249 "
Short walls (inside)	2x1	25	-	2.5	125 "
--do-- (top)	2x1	25	1.5	-	75 "
Labyrinth bed of Gurpur	1	80	25	-	2000 "
--do-- Netravati	1	80	60	-	4800 "
Sea portion	1	220	70	-	15400 "
Sea shore line	1	220	1.75	-	330 "
River bank of Gurpur river	2x1	250	1.75	-	875 "
--do-- of Netravati river	2x1	90	1.75	-	315 "
Leading and exit channel	1	650	8	-	5200 "
North side channel (inside)	2x1	70	-	3	420 "
---do--- (top)	2x1	70	1.5	-	210 "
South side channel (inside)	2x1	70	-	3	420 "
---do--- (top)	2x1	70	1.5	-	210 "
Bed of Gurpur River above Sultan's Battery.	1	30	4	-	120 "
3' high walls all xxx around the shed covering wave generator.	3x4	8	6.75	-	648 "
					39,360 Sft.
			or Say		39,400 Sft.

6) Supplying at site, sea sand of approved quality for use in model bed.	JOB		8,000 Cft.
8) Supplying water level recorders	6 Nos.	... ...	6 Nos.
7) Supplying and fixing in position sliding cippalelti weirs.	2 Nos	... ...	2 Nos.
9) Supplying at site of work fine silt for injection.	JOB		500 cft.
10) Labour for laying and lining out model 8 collies for 90 days.	8x90	720 days.	720 Collie days.
11) Supplying at site of work timber of sizes as ordered.	JOB		70 Cft.
12) Supplying at site iron & steel categories.	JOB		4 cwt.
13) Sundries such as photographic materials copper glass tubing and other chemicals etc.	JOB		

Item No	Details of work	No.	Measurements L.	B	H	Quantities
14)	Wave generator with components and one 5 to 7 H.P. motor and maintenance.	2 Nos.				2 Nos.
15)	Supplying and fixing water tight gates of steel with gearing arrangement.	3	3	2		18 sq.ft.
16)	Labour for conducting model experiments. 5 Coolies for 36 months @ 25 working days per month.	5x36x25	...	...		4500 Coolies days.
17)	Additions and alterations during the course of conducting experiments.			JOB		
18)	Unforeseen works			JOB		
19)	Workcharged Establishment					
	a) One ~~Recording~~ Clerk	1	39 months			39 months.
	b) ~~Two~~ Two Jr. Trained Mazdoors	1	39 months			39 months.
	~~c) Two Research Khalashis~~	~~2~~	~~39x2 months~~			~~78 months~~.
	d) One Watchman	1	39 months			39 months.
20)	Cement concrete 1:4:8					
	Concrete blocks for fixing components of wave generating unit.	24	2	1.5	2.5	180 Cft.
	Concrete bases for fixing motor, gear box unit etc. in 5 positions.	5	5	3	1	75 "
	Movable concrete walls of size 1'-6" x 2½' for using them as partition walls.	1	100	0'-2½"	1.5	31 "
						1592 Cft.
21)	Supplying and fixing in position 2' dia. hume pipe.	...	...	...	...	Say 1600 Cft.
						~~72 Rft.~~
22)	Supplying and fixing in position 18" dia. hume pipes					
	Netravati River					24 Rft.
	Gurpur River					16 Rft.
						40 Rft.
23)	Supplying and fixing in position radial gates including shafting and bearings.	6 Nos.	...	...		6 Nos.
24)	Temporary shed with 3' high masonry walls.	1	20	~~45~~ 10		200 ~~300~~ Sq.ft.

S.No.	Details of work	No	Measurements L	B	H	Quantities
25)	Supplying saw dust treated with lime at site of work.			JOB		1000 cft.
26)	Excavation for foundation in soft ~~and~~ or hard rock including the excavated stuff as and when ordered.					
	Hard rock cutting by chiselling.	1	10	9	3	2160 Cft.
	--do--	1	12	1.5	4	72 "
	--do--	1	8	2	6	96 "
	--do--	1	5	7	3	105 "
	Cutting soft rock	1	80	40	1	3200 "
	Hard rock cutting	1	20	8	3	480 "
	Excavation in hard rock by chiselling.	1	18	8	1.25	180 "
	Soft rock cutting	1	1	8	3	24 "
	Hard rock cutting	1	28	12	2	572 "
	--do--	1	15	6	1.5	135 "
	--do--	1	20	10	5	1000 "
	--do--	1	20	6.25	4	500 "
	Hard rock with chisel cut	1	15	8	2	240 "
	--do--	1	12	4	2	96 "
	--do--	1	13	8	3	312 "
	--do--	1	23	5	3	345 "
	--do--	1	20	40	0.75	600 "
	--do--	1	37	5	2	370 "
	Hard rock under Hooghly Model approach channel.	1	30	4	2	240 "
	Hard rock	2	20	10	0'-6"	200 "
						10,933 cft.
27)	Supply of one current meter for velocity observations.	1 No.				1 No.
28)	Shifting of wave ~~generating~~ generating machine.	4 times				4 times.
29)	Construction of shed for Wave Recording Apparatus.				JOB	
30)	Conducting breakwater experiments in 200 ft. wave flume.				JOB	
31)	Precise pointer gauges with rack and pinion arrangement for water level observations.	2 Nos.			.....	2 Nos.

Item No.	Details of work	No	MEASUREMENTS L	B	H	QUANTITIES
32)	Supply of 1½" granite metal for laying sloping beaches to a slope of 2 to 1 behind wave flaps to absorb reflected waves.	1	60	4.5	2.25/2	304 cft. 21 cft. 325 cft.
33)	Supply of bamboo matting for covering the portion of the model where observations are to be made.			JOB		
34)	Ninan sand (0.09 mm in dia.) for injection to observe bed movement.			JOB		400 Cft.

MANGALORE PORT MODEL

COMPARATIVE STATEMENT SHOWING THE AMOUNTS AS SANCTIONED AND NOW REVISED.

Item No.	Sub-heads and details of work	Sanctioned estimate RS.	Revised Estimate RS.	Excess RS.	Remarks.
1)	Excavation (to R.L.113) for preparing model area in soft,hard or average murum including depositing the excavated stuff as and when required.	2560/-/-	2560/-	No excess	
2)	Excavation for foundation in soft, hard or average murum including depositing the excavated stuff as and when required.	2000/-/-	2000/-	--do--	
3)	Uncoursed rubble masonry in lime 1:1½ with cement plastering.	13608/-/-	13608/-	--do--	
4)	Burnt brick masonry in cement mortar 1:6	1001/-/-	2288/-	1287/-	Guide walls for wave flaps walls around the shed covering the wave generating unit to exclude water and walls to retain the sloping beach made of 1½" metal behind the wave flap/were found necessary. Hence the excess.
5)	Cement plaster (1:3 mix) ¾" thick	7720/-/-	9456/-/-	1736/-	/to absorb reflected waves, To make the walls and the sea bed leakproof 3/4" thickness plaster was used throughout instead of ½" thickness. Provision is also made for plastering the bed of Gurpur river above Sultan's battery as no marked changes in the bed was observed in that reach. Hence the excess.
6)	Supplying at site, sea sand of approved quality for use in model.	5000/-/-	8000/-/-	3000/-/-	It is proposed to study all the proposals with vertical exaggeration and in a geometrically similar model with waves only, as the present vertical exaggeration of the model

					-tics. This requires an extra quanti of sand for laying. Hence the excess
7)	Supplying and fixing sliding cippolelti weirs	300/-/-	300/-/-	--	
8)	Supply of water level recorders.	7800/-/-	7800/-/-	--	
9)	Supplying at site of work fine silt for injection.	250/-/-	250/-/-	--	
10)	Labour for laying and lining out model.	480/-/-	1440/-/-	96	The excess was due to the fact that model layout had to be changed from time to time according to the corre plans as and when received.
11)	Supplying at site of work timber of sizes as ordered.	500/-/-	700/-/-	20	Extra timber will be required to cover portions of the model where observations are to be made. Hence the excess.
12)	Supplying at site of work iron and steel categories.	100/-/-	100/-/-	-	
13)	Sundries such as photographic materials, copper, glass tubing and other chemicals etc.	500/-/-	500/-/-	--	
14)	Wave generating apparatus with components and one 5 to 7 H.P. motor and its maintenance.	7000/-/-	14000/-/-	700(	Originally, it was proposed to use the same wave generator ~~at~~ for fair weather as well as monsoon conditions As this will lead to considerable loss of time on account of shifting etc., it is proposed to install one more wave generating unit at the W.S.W. direction. Hence provision is made for one more wave generator in this estimate. Hence the excess.

Item No.	Sub-heads and details of work	Sanctioned estimate	Revised estimate	Excess	Remarks
		Rs.	Rs.	Rs.	
15)	Supplying and fixing water tight gates of steel with gearing arrangment.	720/-/-	720/-/-	--	
16)	Labour for conducting model experiments	2500/-/-	9000/-/-	6500/-	The prototype data was not received as and when required upsetting the programme. This has resulted in delay in carrying out the model experiments and thus leading to the extensic of experimental period. The experiments are expected to be over by the end of next year i.e 1955. Hence provision is made for 1½ years more for the model labour in this estimate.
17)	Additions and alterations during the coarse of experiments.	2000/-/-	5000/-/-	3000/-	Since the present vertical exaggeration of the model distorts the wave characteristic; it is porposed to test all the proposals with vertical exaggera- tion and in a geometrically simi: model with waves only. Hence an extra amount is made to meet the expenditure in connection with the changes to be made in the model. Hence the excess.
18)	Unforseen works	1000/-/-	1000/-	--	
19)	Workcharged Establishment.	5040/-/-	~~49110/-~~ 10920	~~44070/-~~ 5880	same as for item 16. The total period provided for experiments is 36 months. However workcharged establishment is provided for 39 months. Additional period (viz. 3 years) is necessary for completion of reports etc. Hence

21)	Supplying and fixing in position 2' diameter hume pipe.	1152/-/-	1152/-	--	
23)	Supplying and fixing in position radial gates including shifting etc.	3000/-/-	3000/-	--	
22)	Supplying and fixing in position 18" diameter hume pipe.	520/-/-	520/-	--	
24)	Temporary shed with 3' high masonry walls.	1200/-/-	~~1800/-~~ 1289	~~600/-~~ -/-	
25)	Supplying saw-dust treated with lime at site of work.	--	1500/-	1500/-	No movement was obtained with sea sand near the bar for dry weather conditions. Saw-dust treated with lime was found suited for this purpose. Hence the provision.
26)	Excavation for foundation in soft or hard rock including depositing the excavated stuff as and when ordered (Rock cutting with chisels).	--	4373/-	4373/-	The terrain of the compartment chosen for laying the model necessitated the cutting of hard rock at certain locations. The laying of Gurpur river above Sultan's battery required rock cutting with chisels. Another location, where much rock cutting was done was under the approach channel of the adjacent model to take the byepass channel through it. These difficulties were met with while laying the model and could not be foreseen before. Hence the excess.

No	Sub-heads and details of work	Sanctioned Estimate	Revised Estimate	Excess	Remarks.
		Rs.	Rs.	Rs.	
7)	Supply of one current meter for velocity observations.	-	1500/-/-	1500/-/-	Current meter found necessary for observing velocities in the model.
8)	Shifting of wave generating apparatus.	-	2000/-/-	2000/-/-	Shifting of wave generator is necessary for studying the Gurpur River diversion and changing to other conditions. Hence the provision.
9)	Construction of shed for wave recording apparatus.	-	200/-/-	200/-/-	A shed if found necessary for housing the newly developed wave recording apparatus.
0)	Conducting breakwater experiments in 200' wave flume.	-	2500/-/-	2500/-/-	It is proposed to carry out breakwater experiments in the 200' wave flume in connection with the Mangalore Port development. Hence a lump sum provision is made in this estimate for meeting expenditure regarding the same.
1)	Precise pointer gauges with rack and pinion arrangement for water level observation.	-	300/-/-	300/-	Precise pointer gauges found necessary in connection with the recording of wave heights.
2)	Supply of 1½" granite metal for laying sloping beaches to a slope of 2 to 1 behind wave flaps to absorb reflected waves.	-	88/-/-	88/-	Sloping beaches made of 1½" granite metal behind wave flaps are found necessary to absorb reflected waves.
3)	Supply of bamboo matting for covering the portion of model where observations are to be made.	-	400/-/-	400/-	Covering the portion of the model

				was found necessary to get rid of wind effect.
34) Ninan sand (.09 mm dia.) for injection in the model to observe bed movement.	-	400/-/-	00/-	For monsoon conditions ninan sand as a bed material was found much suited than the saw-dust. Hence the provision.
		1,10,703		
	66686/-/-	~~119493~~/-/-		
		5535		
	3334/-/-	~~5975~~/-/-		Add for contingencies at 5%
		1,16,238		
	70020/-/-	~~125468~~/-/-		
		29060		
	17505/-/-	~~50187~~/-/-		Add for ~~40%~~ 25% overhead charges.
		145.298		
GRAND TOTAL ...	87,525/-/-	~~1,75,655~~/-/-		

From the State Port Officer, Madras.
To the Chairman, Mangalore Port Trust, Mangalore
No.438 SD/54-3 dated 8-1-55.

Mangalore Port - Model Experiments conducted at Poona Research Station - Revised estimate for Rs 1,45,298/- sanction of - your letter No.2196/54-2 dated 16-12-54.

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I invite a reference to this office letter No.17/A/54-7 dated 18-10-54 to the Accountant General, Madras with a copy to the Port Officer, Mangalore wherein it was directed that all debits in respect of the above work on and from 1-5-54 should be debited to the Mangalore Port Fund as a separate fund viz. Mangalore Port Fund had been constituted from that date. Further this is a charge like other charges exclusively intended for the improvement of Mangalore Port and as such should be borne only by the Mangalore Port Fund as necessary as such it is not in order to sanction the revised estimate at this stage under Minor Ports Fund. However it is always open for the Mangalore Port Trust to approach Government for financing the development schemes at hand or under contemplation for improvements of the port of Mangalore. The revised estimate is enclosed herewith.

Copy forwarded to the Director, Central Water & Power Research Station Poona with reference to his letter No.179/9445 of 54 dated 24-12-54 for information. Further communication on the subject may please be addressed to the Chairman, Mangalore Port Trust, Mangalore.

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p.t.o.

Endorsement No. 438 SD/54-4.

Copy forwarded to the Secretary to Government, P.W.D., Madras with reference to Government Memo No.97797/54-1 P.W. dated 29-1-1955 for favour of information.

Madras, 5-2-55.

State Port Officer

AT/5.

14846

From:
L.H.Cornish Esq.,
State Port Officer,
P.B.No.13,
Madras-1.

To:
The Secretary to Government,
Public Works Department,
Madras.

No.438 SD/54-3 dated 23rd February 1955.

Sir,

Mangalore Port - Model experiments conducted at Poona Research Station - Revised estimate for Rs.1,45,298/- - Sanction of and expenditure regarding - Letter No.2196/54-5 dated 2-2-1955 from the Chairman, Mangalore Port Trust to Government and Government Endt. No. 97797-F/54-2 P.W. dated 15-2-1955.

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The Chairman, Mangalore Port Trust, in his letter cited stresses mainly on two points and they are that the State Minor Ports Fund should bear the further cost of the work of model experiments relating to the port of Mangalore consequent on the revision of the estimate, on the plea that the work was started and the estimates sanctioned therefor before the constitution of the Port Trust Board at Mangalore, as otherwise the cost would have in the ordinary course to be borne by the State Minor Ports Fund. The other point is that, should it be decided that the aforesaid extra cost be met from Mangalore Port Fund, a free grant or at least interest free loan repayable within 10 years in equal instalments to the extent of Rs.57,700/- be made available from the State Minor Ports Fund.

2. I am of the opinion that as this is also a charge as any other charge relating to the port of Mangalore the plea that the State Minor Ports Fund should bear the cost is now out of question, the Fund being not in a position to finance the amount. The estimate for the work was sanctioned originally for Rs.63,956/- in 1951 revised to Rs.87,525/- in May 1952 i.e. prior to the formation of the Mangalore Port Trust and now it is further revised to Rs. 1,45,298/-. It is not also known whether the estimate will undergo any further revision. Hence, there is also no question of consideration of a free grant from Minor Ports Fund in as much as there exists no cause for the Fund to bear the debit itself. The proposal of grant of interest free loan from the State Minor Ports Fund for the amount in question, Rs.57,700/- remains to be examined taking cognisance of the state of finances of the State Minor Ports Fund. The cash closing balance budgetted for 1954-55 is only Rs.1,69,948/- and that too after selling away securities to the face value of Rs.3,00,000/-. The loan granted to the Swadeshi Steamship Company Ltd., has not yet been fully recovered as also other loans granted to the various Landing and Shipping Funds. The realisation of the loan in full from the Swadeshi Steamship Company seems to be far from bright. On the whole, the State Minor Ports Fund is not so sound as to entertain request for loans.

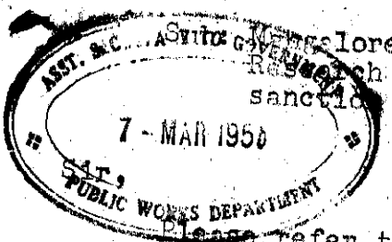
3. In this connection, I may mention that out of the four development schemes originally approved for Mangalore one scheme viz. "Realignment and Reconstruction of North Wall" (estimate cost Rs.2,50,000/- and proposed Central loan therefor Rs.1,25,000/-) is most likely to be deferred in the first five year plan and in consideration of this the Mangalore Port Trust may well-ask for Central loan of Rs.57,700/- for the Model Experiments at Poona in the absence of any other steps to seek funds; or the Port Trust may perhaps float a loan to-finance the scheme, if this is permissible.

Yours faithfully,

State Port Officer.

AT/23.

Copy of letter No.179/697 of 55 dated 24th January, 1955 from the Director, Central Water & Power Research Station, Poor to the Chairman, Mangalore Port Trust, Mangalore.



Mangalore Port — Experiments conducted at the Research Station — Revised estimate for Rs. 1,45,298 sanction of —

18892

Please refer to No.438 SD/54 3 dated 8th January, 1955 from State Port Officer, Madras, a copy of which is endorsed to me by him.

In this connection, I have to state that I am incurring the expenditure in anticipation of sanction, in view of the urgency of work. I request you to sanction the estimate and place the funds at my disposal at a very early date.

No.2196/54-5.

Copy submitted to the Secretary to Government, Public Works Department, Madras, in continuation of this office letter No.2196/54 4 dated 3rd February, 1955.

Port Trust Office,
P.B.No.146, Mangalore.
D/16th February, 1955.

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Shr/16.2.

2/ annexures

CHAIRMAN.

3

(C.No.97797 F/54.)

P.W.D.(F-1).

Port Trusts - Mangalore - Improvements Model experiments at Central Water and Power Research Station, Poona - Second Revised Estimate for Rs.1,45,298 - Sanctioned.

Read again:-

G.O.Ms.No.1959 P.W. d/6-5-1952.

Read also :-

From the C.Man.P.T. letter No. 2196/54-4 d/2-2-1955.

From the S.P.O. letter No.438 Sc 54-3 dated 23-2-1955.

ORDER MS. NO. 1163 DATED 29.3.55

The Government sanction the second revised estimate amounting to Rs.1,45,2 (Rupees one lakh, forty five thousand two hundred and ninety eight only) for conducting model experiments at the Central Water and Power Research Stati Poona, in connection with the improvements to the Port of Mangalore, in supersess of the revised estimate for Rs.87,525/ sanctioned in G.O.Ms.No.1959 P.W. date 6-5-1952.

2. The Government have examined the various proposals made by the Chairman, Mangalore Port Trust, and the State Port Officer for meeting the additional expenditure on the model experiments and consider that none of the proposals is feasible of implementation. They accordingly direct that for the time being the additional expenditure may be met from a loan taken by the

-2-

Mangalore Port Fund from the Mangalore Port Trust ~~Landing and Shipping~~ Fund and the position reviewed, if considered necessary, at the end of 1955-56.

To the C.Man.P.T. with an estimate.

To the S.P.O.

To the Ex. of L.F. Accounts.

Spare copies - 3.

CENTRAL DESPATCH BRANCH

Despatched by

PUBLIC WORKS DEPARTMENT.

Memorandum No.14824-F/55-2 Dated 26th April 1955.

Sub:- Port Trust--Mangalore Improvements--Model experiments at Central Water and Power Research Station, Poona--Revised estimate--Payment of additional amount.

Ref:- From the Chairman, Mangalore Port Trust Board, letter No.2196/54-8 dated 13.4.1955.

The action of the Chairman, Mangalore Port Trust, in having granted a loan of Rs 50,000/- (Rupees fifty thousand only) from the Mangalore Port Trust Fund to the Mangalore Port Fund, and in having paid a sum of Rs 57,773/-(Rupees fiftyseven thousand seven hundred and seventy three only) being the difference between the 2nd revised estimate and the 1st revised estimate for the model experiements at the Central Water and Power Research Station, Poona, to the Director of the said Research Station, pending inclusion of necessary provisions in the Budget Estimates of the Mangalore Port Trust, and Port Funds awaiting sanction of Government are ratified.

C.P.KELU ERADY,
DEPUTY SECRETARY TO GOVERNMENT.

To the Chairman, Mangalore Port Trust.
To the Accountant-General, Madras.
To the Examiner of Local Fund Accounts(with enclosure).

::FORWARDED::BY ORDER::

TMJ.27.4.

SUPERINTENDENT.

P.W.(F-1).

(C.No.97797 F/54.)

Sub: PORT TRUSTS - Mangalore - Improvements - Model experiments at Central Water and Power Research Station, Poona - Second Revised Estimate for Rs.1,45,298.

Ref: From the Chairman, Mangalore Port Trust letter No.2196/54-2 dated 16-12-54 to the S.P.O.

From the Chairman, Mangalore Port Trust, letter No.2196/54-4 dated 2-2-1955.

To the S.P.O. Endt. No.97797 F/54-2 dated 15-2-55

From the S.P.O. letter No.438 SD/54-3 d/23-2-55.

This file relates to the question of according sanction to the Second revised estimate for Rs.1,45,298 for the model experiments at the Central Water and Power Research Station, Poona, connected with the improvement and development of the Mangalore Port; and also to the question of providing funds to meet the additional expenditure.

2. In Memo No.3036 F/49-22 P.W. dated 14-6-1951, the Government first sanctioned an estimate amounting to Rs.63,956 for the model experiments, the expenditure being met from the Minor Ports Fund. Subsequently in G.O.Ms.No.1959 P.W. dated 6-5-1952, the Government sanctioned a revised estimate amounting to Rs.87,525 for the experiments and the increased expenditure was also met from the Minor Ports Fund. The Director, Central Water and Power Research Station, Poona, has now sent a second revised estimate amounting to Rs. 1,45,298 for the experiments for necessary sanction.

3. The Chairman, Mangalore Port Trust Board, has forwarded the revised estimate for Rs.1,45,298 to Government for sanction and he has also raised the question of debit of the additional expenditure of Rs.57,773. He has stated that the Mangalore Port Fund was constituted with "Nil" balance and would not be able to meet the additional expenditure of Rs. 57,773 referred to above. He has therefore suggested

p.t.o.

that though the work related exclusively to Mangalore port, ~~yet~~ in as much as the original estimate was sanctioned from the State Minor Ports Fund and the work was taken up before the constitution of the Mangalore Port Trust Board; and as the additional expenditure would have been met from the Minor Ports Fund, but for the constitution of the Port Trust, the additional expenditure of Rs.57,773 should also be met from the Minor Ports Fund. He has also stated that if it is not possible to meet the additional expenditure from the Minor Ports Fund, a free grant or at least an interest free loan of Rs.57,700 repayable within 10 years may be made available from the Minor Ports Fund to meet the additional expenditure.

4. The S.P.O. who was referred to in the matter has in his report on pp.45-46 c.f. stated that none of the proposals of the C.Man.P.T. is acceptable in view of the dwindling finances of the Minor Ports Fund. He has therefore suggested that the Model experiments may be included in the approved list of port development schemes in the place of one of the schemes proposed to be removed therefrom and a loan obtained thereof from the Government of India. As an alternative, he has suggested that the Port Trust may be permitted to float a loan for meeting the additional expenditure.

5. With effect on and from the 1st May 1954, the Port Fund account of the Port of Mangalore has been separated from the accounts of the Minor Ports Fund and is being kept separately. As such no expenditure pertaining to the Mangalore Port could be met from the Minor Ports Fund. No free grant from the Minor Port Fund could also be sanctioned for the Mangalore Port. Hence as stated by the S.P.O. the suggestions of the Chairman, Mangalore Port Trust in this regard

cannot be accepted. But a loan could be granted from the Minor Ports Fund to the Mangalore Port Trust, but this cannot be interest free as requested by the Chairman, Mangalore Port Trust, as under section 36(6) of the Indian Ports Act 1908, the balances in the Minor Ports Fund may only be temporarily invested in such manner as the Government may direct. But the present times do not appear to be quite suitable for the purpose of grant of a loan to the Mangalore Port Trust. Though orders allocating the balances in the Minor Ports Fund between the Madras and Andhra States have already been issued, final allocation of the balance has not yet been made. Until the balances are actually allocatted, it would not be possible to say whether a loan could be granted therefrom. Hence the suggestion of the C.Man.P.T. in this regard cannot also be accpeted for some more time to come. Hence none of the suggestions made by the C.Man.P.T. for meeting the additional expenditure on the model experiments is possible of implementation.

6. As regards the proposals of the S.P.O. in this regard it is submitted that the model experiments were started in 1951 and they are now nearing completion. At this stage the scheme cannot reasonbly be included in the approved list of port development schemes and a loan obtained therefor from the Government of India. As regards the suggestion that the Port Trust might be permitted to raise a loan, it is submitted that such a course is also not ~~feasible~~ desirable though the Mangalore Port Trust Act provides for such a contingency. ~~The Port Trust~~ has only recently been constituted and it does not appear ~~to be~~ desirable to permit it to raise a loan for meeting an additional expenditure of Rs.58,000 on the model experiments.

p.t.o.

7. When the Mangalore Port Fund was constituted with effect on and from the 1st May 1954, it was ordered that the working expenses of the Port Fund in its initial stages may be met from the Mangalore Landing and Shipping Fund, subject to adjustment as the balances of the new fund become available. It is observed from the Budget Estimates for 1955-5(of the Mangalore Port ~~Trust~~ Fund, ~~and~~ the Mangalore ~~Landing and Shipping~~ Port Trust Fund that the Mangalore Port Fund has not taken any assistance from the Mangalore ~~Landing and Shipping~~ Port Trust Fund during 1954-55. It is also observed therefrom that the Mangalore ~~Landing and Shipping~~ Port Trust Fund will close with a balance of Rs.1,~~00~~,407 (Rs.15,807 cash and Rs.1,72,600 securities) and the Mangalore Port Fund with a balance of Rs.39,017 in 1955-56. As the balance in the Mangalore ~~Landing and Shipping~~ Port Trust Fund is sufficiently large, the Mangalore Port Fund may perhaps for the time being take a loan from the ~~Landing and Shipping~~ Port Trust Fund for meeting the additional expenditure on the experiments, the position being reviewed, if necessary, at the end of 1955-56.

8. In the circumstances stated above it is for consideration -

(i) whether sanction may be accorded to the 2nd revised estimate amounting to Rs.1,45,298/- for the Model experiments at Poona; and

(ii) whether the C.Man.P.T. may be informed that the addl. expenditure (Rs 57,773/-) on the model experiments may for the time being be met from a loan taken by the Mangalore Port Fund from the Mangalore ~~Landing and Shipping~~ Port Trust Fund and the position reviewed, if necessary, at the end of 1955-56.

Subject to orders a draft is submitted for consideration.

The proposals in Para 6 may be approved.

A.J.Ch. 21.3.55 A.S. P.W.D.

D.S. 22.3.55

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pp 49-50 C